

**Technical Data Sheet  
Potassium Lignite**

Revised 09/21/06

## Potassium-Lig

<b>Description</b>	Potassium-Lig is a potassium lignite that is chemically modified so that it delivers a higher degree of synergy with lignosulfonates in drilling fluids.
<b>Functional Use</b>	Potassium-Lig has the same lignite base as Super Treat, but also contains a potassium hydroxide additive to control stabilization of water-sensitive shale formations in high-temperature, deep-zone drilling operations. It is compatible with other mud system additives, and is not adversely affected by contaminants in the system.
<b>Advantages</b>	Potassium-Lig acts as both a dispersant and fluid loss control agent in high-temperature, high-pressure drilling. It will maintain effectiveness over a wide pH range in either fresh or salt water mud systems.
<b>Mesh Sizing</b>	Minimum 35% passing 200 mesh (74 microns)
<b>Solubility</b>	75% minimum

### Typical Chemical Analysis

	Dry Basis (% by wt)			
Carbon	45.0	Na <sub>2</sub> O	8.46	
Oxygen	19.7	MgO	0.86	
Hydrogen	2.9	CaO	2.84	
Nitrogen	0.9	Fe <sub>2</sub> O <sub>3</sub>	1.57	
Sulphur	1.5	Al <sub>2</sub> O <sub>3</sub>	1.42	
Ash	30.0	K <sub>2</sub> O	0.19	
		Cr <sub>2</sub> O <sub>3</sub>	0.43	

<b>pH</b>	9.0 - 10.0 @ 1% solids
<b>Color</b>	Blackish-Brown
<b>Bulk Density</b>	Typically 45.0 lbs/ft <sup>3</sup>
<b>Moisture</b>	9% - 13% as shipped
<b>Packaging</b>	Bulk or palletized in carload and truckload quantities. 50 lb. multiwall, water-resistant bags or 2,000 lb. bulk bags

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